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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/627,591	07/25/2003	Andrew Clark	0029.10	2973	
	21968 7590 11/13/2007 NEKTAR THERAPEUTICS			EXAMINER	
201 INDUSTRIAL ROAD			ALI, SHUMAYA B		
SAN CARLOS, CA 94070			ART UNIT	PAPER NUMBER	
			3771		
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		•	MAIL DATE	DELIVERY MODE	
			11/13/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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•	Application No.	Applicant(s)			
Office A. d'ess Comments	10/627,591	CLARK ET AL.			
Office Action Summary	Examiner	Art Unit			
	Shumaya B. Ali	3771			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 30 Au	<u>igust 2007</u> .				
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL . 2b)⊠ This action is non-final.				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 23-52 is/are pending in the application 4a) Of the above claim(s) 25 and 27 is/are without 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 23,24,26,28-52 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	drawn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer and the correction is objected to by the Examiner and the correction of the content of the correction of the correct	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119	•				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

Status of Claims

No amendment to claims is made in response to the office action mailed on 4/3/07. Claims 1-22 are previously cancelled, and claims 25 and 27 are previously withdrawn.

Currently claims 23-52 are pending in the instant application.

Response to Arguments

Applicant's arguments with respect to claims 23-24,26, and 28-82 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 23,24,26, and 28-52 are rejected under 35 U.S.C. 102(e) as being anticipated by Rubsamen et al. US 5,735,263.

Regarding claims 23, 29, 28, 31-36, and 38-40, Rubsamen discloses a device (see the device of figs.1 and 10) for increasing the bioavailability of an aerosolized active agent, said device comprising a flow restrictor (9,22,37). Rubsamen in column 5, lines 50-55, column 13, lines 5-10, 25-30, and 52-57, column 23, lines 34-55 discloses that a microprocessor controls and

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monitors the inspiratory flow of an aerosolized active agent formulation to a human patient (though the valve in the case of fig. 1 and though the opening of the mouthpiece in the case of fig. 10) at a rate of 0.1 to 2 liters per second ~ 6 to 12 liters per minute, which meets claimed flow rate of "less than 17 liters per minute" and "10 liters per minutes". Rubsamen further discloses wherein the device is adapted to aerosolize the active agent formulation and wherein the active agent formulation is (i) a powder, (ii) a solution, suspension, or slurry that may be nebulized, or (iii) suspended or dissolved in a propellant (see col.14, lines 64-67, and col.15, lines 1-6).

Rubsamen further discloses the active agent formulation is a powder (see col.14, lines 64-67, and col.15, lines 1-6) and the device is adapted to aerosolize the active agent formulation (see col.29, lines 26 and 27) using compressed air (see col.31, lines 15-20). Rubsamen further specifically discloses the device is adapted to be used with an active agent selected from the group consisting of insulin (see col.22, lines 49 and 50).

Regarding claim 26, Rubsamen discloses the flow restrictor is a valve (fig.1, 9) and microprocessor (22,27) controlling the inspiratory flow rate though the valve would provide for adjustment of the valve so that it decreasing resistance with increasing flow rate in order to provide an inspiratory flow rate of 6-12 liters per minutes.

Regarding claims 30,37, 41, 46, and 52, Rubsamen in figure 10 discloses the active agent formulation is contained in a blister (56) and the device is adapted to receive the blister.

Regarding claims 24, 42-45, Rubsamen discloses the claimed invention as applied for claims 23, 29, 28, 31-36, and 38-40. Notice, opening through the mouthpiece in figure 10 and flow passage blocked by the valve in figure 1 is considered orifice of claims 24 and 42.

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Regarding claims 47 and 48, Rubsamen discloses a device (see fig.1 and 10) for delivering an aerosolized active agent to the lungs of a human patient, said device comprising a chamber (3,55) in flow communication with a mouthpiece (12,52), means for aerosolizing the active agent (actuator/switch (see col.17, lines 15-17) releasing active agent into a flow path (8/54) would allow aerosolization of the agent in the air contained into the flow path; and patient's inhalation force can further assist in aerosolization of the active agent), and means for limiting an inspiratory flow rate (9,22,37). Rubsamen discloses flow rate of less than 17 liters per minute and 10 liters per minute or less as applied for claim 23. Rubsamen further discloses whereby an aerosolized active agent formulation in the chamber may be delivered to the human patient, the active agent formulation being (i) powder, (ii) a solution suspension, or slurry than may be nebulized, or (iii) suspended or dissolved in a propellant (see col.14, lines 64-67, and col.15, lines 1-6).

Regarding claim 49, Rubsamen discloses the device is adapted to deliver an aerosolized insulin formulation to the lungs Rubsamen further specifically discloses the device is adapted to be used with an active agent selected from the group consisting of insulin (see col.22, lines 49 and 50).

Regarding claim 49, Rubsamen discloses the device is adapted to deliver an aerosolized insulin formulation to the lungs (see col.22, lines 49 and 50).

Regarding claim 50, Rubsamen discloses the device further comprising means for aerosolizing the active agent (see compressed air in col.31, lines 15-20).

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Regarding claim 51, Rubsamen discloses the active agent formulation is a powder (see col.14, lines 64-67, and col.15, lines 1-6) and the device is adapted to aerosolize the active agent formulation (see col.29, lines 26 and 27).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Newhouse (5,349,947), Kalishman (5,065,753), Bagwell (5,396,884), and Johansson (5,392,768) pertain to aerosolizing device with flow restrictor.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shumaya B. Ali whose telephone number is 571-272-6088. The examiner can normally be reached on M-W-F 8:30am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Justine Yu can be reached on 571-272-4835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Shumaya B. Ali Examiner Art Unit 3771

JUSTINE R. YU
SUPERVISORY PATENT EXAMINER
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11/9/07